

CLAIM AMENDMENTS:

Amend Claims 1, 3-7, 9-11, 14, 15 and 17-23 to read as follows:

1. (Currently Amended) A recording apparatus ~~for recording image data on a recording medium~~, comprising:

recording means for recording on a recording medium image data and management data ~~representing~~ recorded in a start address area for recording a start address of the image data and a recorded in an end address area for recording an end address of the image data ~~on said recording medium of said image data onto said recording medium~~; and

control means for controlling said recording means so as to record a predetermined value ~~in place of said~~ other than the recording end address in the end address area of the management data in accordance with a recording instruction.

2. (Original) An apparatus according to Claim 1, wherein said recording means records said image data into a first area on said recording medium and records said management data into a second area on said recording medium.

3. (Currently Amended) An apparatus according to Claim 2 1, wherein said control means controls said recording means so as to record a the recording end address in the end address area of the management data ~~of said image data in place of said predetermined value~~ in response to a recording end stop ~~instruction of said image data~~.

4. (Currently Amended) An apparatus according to Claim 1, wherein said control means ~~further~~ controls said recording means so as to record ~~add second~~ management data including a recording end address of an image data train constructed by ~~said~~ comprising a plurality of image data groups each of which has the image data of for a predetermined period ~~to said image data train~~ and to record ~~said~~ second management data ~~to said recording medium~~ indicating a recording end address of each of the image data groups.

5. (Currently Amended) An apparatus according to Claim 4, wherein ~~said~~ the second management data ~~is~~ are added to the end of ~~each~~ the image data group train ~~and recorded~~; and wherein said control means controls said recording means so as to overwrite a new image data group train ~~onto a recoding position of said~~ and address where ~~the~~ second management data ~~added to just preceding image data train in case of recording~~ the new image data train of the image data group recorded just before has been recorded.

6. (Currently Amended) An apparatus according to Claim 4, further comprising reproducing means for reproducing ~~said~~ the management data and ~~aid~~ the second management data from said recording medium, wherein in case that the predetermined value is recorded in the end address area of the management data reproduced by said reproducing means, and ~~wherein~~ said control means ~~further~~ controls said recording means so as to record the recording end address of the ~~included in said~~

second management data in ~~place of said predetermined value included in said~~ the end address area of the management data instead of the predetermined value.

7. (Currently Amended) A recording apparatus comprising:  
recording means for recording image data ~~and management data~~  
~~representing a recording address of said image data onto~~ on a disk-shaped recording medium;  
instructing means for instructing a recording of the image data and a  
recording stop of ~~said~~ the image data, wherein said recording means starts to record the  
image data in response to the recording instruction and stops recording the image data in  
response to the recording stop instruction; and  
control means for controlling said recording means so as to record  
management data including a recording start address information of the image data and flag  
data indicating that the recording stop of ~~said~~ the image data by ~~said~~ the recording stop  
instruction is not performed, in accordance with the recording instruction, ~~together with~~  
~~said management data.~~

8. (Original) An apparatus according to Claim 7, wherein said control means controls said recording means so as to erase said flag data in response to the recording stop instruction issued by said recording means.

9. (Currently Amended) An apparatus according to Claim 7, wherein said control means ~~further~~ controls said recording means so as to record ~~add second~~ management data ~~including a recording end address of an image data train constructed by~~ said comprising a plurality of image data groups each of which has the image data of for a predetermined period ~~to said image data train and to~~ record ~~said~~ second management data ~~on said recording medium~~ indicating a recording end address of each of the image data groups.

10. (Currently Amended) An apparatus according to Claim 9, wherein ~~said the~~ said management data ~~is~~ are added to the end of ~~each the~~ image data group train ~~and recorded;~~ and wherein said control means controls said recording means so as to overwrite a new image data group train ~~onto a recoding position of said~~ and address where ~~the~~ second management data ~~added to just-preceding image data train in case of recording~~ the new image data train of the image data group recorded just before has been recorded.

11. (Currently Amended) An apparatus according to Claim 9, further comprising reproducing means for reproducing the data from said recording medium, and wherein said control means ~~further~~ controls said recording means so as to record the recording end address of the ~~included in said~~ second management data ~~into in~~ the end address area of the ~~said management data in accordance with said flag data in said reproduction data~~ instead of the flag data.

12. (Original) An apparatus according to Claim 7, wherein said recording means includes encoding means for encoding the image data and records said encoded image data.

13. (Original) An apparatus according to Claim 7, wherein said recording means includes a memory for storing said management data, forms said management data by using said memory, and records the management data stored in said memory onto said disk-shaped recording medium in response to said recording stop instruction.

14. (Currently Amended) A recording apparatus for recording image data and table data for reproduction management of ~~said~~ the image data onto a disk-shaped recording medium,

wherein ~~a flag~~ said apparatus records the table data including flag information indicating that the recording of ~~said~~ the image data is not normally finished is ~~recorded in said table data~~ in accordance with a recording instruction and deletes the flag information from the table data when the recording of the image data is normally finished.

15. (Currently Amended) A recording apparatus comprising:  
recording means for recording ~~a plurality of an~~ image data train comprising  
a plurality of image data groups each of which has ~~trains each constructed by~~ image data of

n frames (n is an integer of 2 or more) ~~and management data indicative of recording addresses of said image data trains onto~~ on a disk-shaped recording medium; ~~said recording means recoding said image data trains into an image data area of said disk-shaped recording medium and recording said management data into a management data area of said disk-shaped recording medium; and~~

control means for controlling said recording means so as to ~~add said management data regarding said~~ record the image data trains on said train comprising the plurality of image data groups ~~trains basis and record said plurality of image data trains to which said management data is added, into said image data area and first management data indicating a recording address of each of the image data groups in an image data area on the disk-shaped recording medium and to record second management data indicating a recording address of the image data train in a management data area on the disk-shaped recording medium.~~

16. (Original) An apparatus according to Claim 15, wherein said recording means includes encoding means for encoding said image data on a unit basis of n frames and records said encoded image data.

17. (Currently Amended) An apparatus according to Claim 15, wherein in case of recording a new image data group train, said control means controls said recording means so as to overwrite said new image data group train onto an address where

the first management data of the image data group train recorded just before has been recorded.

18. (Currently Amended) A recording method ~~of recording image data on a recording medium~~, comprising the steps of:

recording on a recording medium image data and management data having representing a start address area for recording a start address of the image data and a an end address area for recording an end address of the image data on ~~said~~ a recording medium of said image data ~~of said image data onto said recording medium~~; and

controlling a recording operation in said recording step in such a manner that a predetermined value except the recording end address is recorded in ~~place of said recording the end address area of the management data in accordance with a recording instruction~~.

19. (Currently Amended) A recording method comprising the steps of:

recording image data ~~and management data representing a recording address of said image data onto~~ on a disk-shaped recording medium;

instructing a recording of the image data and a recording stop of ~~said the~~ image data, wherein said recording step is arranged to start to record the image data in response to the recording instruction and stop recording the image data in response to the recording stop instruction; and

controlling a recording operation in said recording step ~~in such a manner~~  
~~that so as to record management data including a recording start address information of the~~  
~~image data and flag data indicating that the recording stop of said the image data by said~~  
~~the recording stop instruction is not performed is recorded, together with said management~~  
~~data in accordance with the recording instruction.~~

20. (Currently Amended) A recording method comprising the steps of:  
recording ~~a plurality of an image data train comprising a plurality of image~~  
~~data groups each of which has trains each constructed by~~ image data of n frames (n is an  
integer of 2 or more) ~~and management data indicative of recording addresses of said image~~  
~~data trains onto on~~ a disk-shaped recording medium, ~~recording said image data trains into~~  
~~an image data area of said disk-shaped recording medium, and recording said management~~  
~~data into a management data area of said disk-shaped recording medium; and~~

controlling a recording operation in said recording step ~~in such a manner~~  
~~that said management data regarding said so as to record the image data trains is added on~~  
~~said train comprising the plurality of image data groups trains basis and said plurality of~~  
~~image data trains to which said management data is added are recorded in said image data~~  
~~area and first management data indicating a recoding address of each of the image data~~  
~~groups in an image data area on the disk-shaped recording medium and to record second~~  
~~management data indicating a recording address of the image data train in a management~~  
~~data area on the disk-shaped recording medium.~~



21. (Currently Amended) A computer-readable recording medium which stores a program for recording image data on a recording medium, wherein said program comprises the steps of:

recording image data and management data having representing a recording start address area for recording start address of the image data and a recording an end address area for the recording end address of the image data on said recording medium of ~~said image data onto said recording medium~~; and

controlling a recording operation in said recording step in such a manner that a predetermined value except the recording end address is recorded in ~~place of said recording end address area of the management data in accordance with a recording instruction~~.

22. (Currently Amended) A computer-readable recording medium which stores a program comprising the steps of:

recording image data ~~and management data representing a recording address of said image data onto~~ on a disk-shaped recording medium;

instructing a recording of the image data and a recording stop of said the image data, wherein said recording step is arranged to start to record the image data in response to the recording instruction and stop recording the image data in response to the recording stop instruction; and

controlling a recording operation in said recording step ~~in such a manner~~

that so as to record management data including a recording start address information of the image data and flag data indicating that the recording stop of said the image data by said the recording stop instruction is not performed is recorded, together with said management data in accordance with the recording instruction.

23. (Currently Amended) A computer-readable medium which stores a program comprising the steps of:

recording a plurality of an image data train comprising a plurality of image data groups each of which has trains each constructed by image data of n frames (n is an integer of 2 or more) and management data indicative of recording addresses of said image data trains onto on a disk-shaped recording medium; recording said image data trains into an image data area of said disk shaped recording medium; and recording said management data into a management data area of said disk-shaped recording medium; and

controlling a recording operation in said recording step in such a manner that said management data regarding said so as to record the image data trains is added on said train comprising the plurality of image data group trains basis and said plurality of image data trains to which said management data is added are recorded in said image data area and first management data indicating a recording address of each of the image data groups in an image data area on the disk-shaped recording medium and to record second management data indicating a recording address of the image data train in a management data area on the disk-shaped recording medium.